6-3-0 NP

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

John C. Harvey and James W. Cuddihy:

Group Art Unit:

2699

Serial No.:

08/479,215

Examiner:

Luther, W.

Filed:

June 7, 1995

Atty Dkt:

05634.0358

For: SIGNAL PROCESSING APPARATUS

AND METHODS

Information Disclosure Statement

RECEIVED

MAY 1 5 2001

Assistant Commissioner for Patents Washington, D.C. 20231

Technology Center 2600

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

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This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited by or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).

Applicants have checked the appropriate boxes below.

- [] 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No statement under 37 C.F.R. § 1.97(e) or fee is required. 37 C.F.R. § 1.97(b).
- [X] 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.

 37 C.F.R. § 1.97(c).
 - [] a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
 - [X] c. Attached is our Check No. 3494 in the amount of \$180.00 in payment of the fee under 37 C.F.R. § 1.17(p).

- [] 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. It is hereby requested that the Information Disclosure Statement be considered. Attached is our Check No. 3494 in the amount of \$180.00 in payment of the fee under 37 C.F.R. § 1.17(i). 37 C.F.R. § 1.97(d).
 - [] a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
 - [] c. An accompanying petition requesting consideration of this Information Disclosure Statement and the petition fee set forth in 37 C.F.R. § 1.17(i) are included with this communication. 37 C.F.R. § 1.97(d)(2) & (3).
- [] 4. Relevance of the non-English language document(s) is discussed in the present specification. 37 C.F.R. § 1.98(a)(3).
- [X] 5. A concise explanation of the relevance of the non-English language document(s) appears below in Appendix A. 37 C.F.R. § 1.98(a)(3).
- [X] 6. Some documents were cited-in corresponding foreign applications.
- [X] 7. The Examiner's attention is directed to Applicants' co-pending U.S. Patent Applications that are directed to related technical subject matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application

and the art cited therein during examination. 37 C.F.R. § 1.98(d). Attached hereto is Appendix B listing Applicants' related applications, and Appendix C that lists the prior art previously cited by the PTO in those applications.

[X] 1. Copies of the documents were cited by or submitted to the Office in Applicants' Applications listed in Appendix D which are relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d). Applicants submit Appendix E which contains a list of all references not hereto previously cited in the instant application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

A single set of copied references required by 37 C.F.R. § 1.98(a) have been submitted in conjunction with this communication in Applicant's application number 08/113,329 in compliance with the PTO's instructions in the First Office Action of the above referenced application.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 50-0206.

Respectfully submitted,

Date: May 11, 2001 HUNTON & WILLIAMS 1900 K Street, NW,

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

CITATION FORM

Attorney Docket No.	Serial No.
05634.0358	08/479,215
Applicant(s)	<u> </u>
John C. Harvey and James W. Cu	ddihy
Filing Date	Group Art Unit
June 7, 1995	2699

UNITED STATES PATENT DOCUMENTS

EXAMINER	PATENT	PATENT	ing .	CLASS/	FILING
INITIAL	NUMBER	DATE	NAME	SUBCLASS	DATE*
	1,927,702	September 19, 1933	Foss	705/36	December 3, 1932
	2,511,085	June 13, 1950	Smith	381/104	November 15, 1946
	2,573,349	October 30, 1951	Miller et al.	725/14	December 9, 1949
	2,769,023	October 30, 1956	Loew et al.	725/143	January 19, 1950
	2,788,387	April 9, 1957	Druz	380/320	October 2, 1951
	2,864,865	December 16, 1958	Morris	568/430	May 4, 1955
	2,866,962	December 30, 1958	Ellet	380/227	December 6, 1955
	2,969,427	January 24, 1961	See	348/705	May 27, 1957
	3,008,000	November 7, 1961	Morchand	725/138	September 11, 1958
	3,016,091	January 9, 1962	Daniele	162/391	August 11, 1960
	3,071,642	January 1, 1963	Mountjoy et al.	725/151	February 21, 1957
	3,213,201	October 19, 1965	Flood et al.	370/381	July 2, 1962
	3,238,297	March 1, 1966	Pawley et al.	380/240	July 8, 1951
	3,244,806	April 5, 1966	Morris	725/151	January 30, 1962
	3,363,250	January 9, 1968	Jacobson	340/825.17	July 20, 1965
	3,371,071	February 27, 1968	Webb	428/355EN	January 18, 1965
	3,387,268	June 4, 1968	Epstein	340/825.26	September 9, 1963
	3,531,583	September 29, 1970	Walker	380/230	July 28, 1966
	3,531,586	September 29, 1970	Bass et al.	725/151	April 19, 1965
	3,536,833	October 27, 1970	Guanella	380/28	July 8, 1965
	3,569,937	March 9, 1971	Hoetter	340/825.75	November 6, 1968
	3,573,747	April 6, 1971	Adams et al.	705/37	February 24, 1969
	3,586,767	June 22, 1971	Morchand	348/473	June 4, 1968
	3,586,771	June 22, 1971	Hamburger et al.	725/1	October 25, 1968
	3,601,528	August 24, 1971	McVoy	724/143	June 16, 1969
	3,606,688	April 24, 1971	Zawels et al.	434/323	July 11, 1969
	3,609,697	September 28, 1971	Blevins et al.	717/2	October 21, 1968
	3;627;914—	December-14, 1971	Davies	_348/722_	September 4, 1969
	3,648,270	March 7, 1972	Metz et al.	345/24	August 11, 1969
	3,657,699	April 18, 1972	Rocher et al.	380/265	June 30, 1970
	3,659,046	April 5, 1972	Angeleri et al.	380/43	May 13, 1969
	3,676,580	July 11, 1972	Beck	725/16	June 1, 1970
	3,693,090	September 29, 1972	Gabriel	725/1	August 8, 1969
	3,703,684	November 21, 1972	McVoy	725/16	June 25, 1971
	3,716,835	February 13, 1973	Weinberg	340/825.27	March 19, 1971
	3,725,672	April 3, 1973	Reuter	327/176	July 30, 1971

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Serial No. 08/479,215
Technology Center 260 Pocket No. 5634.0358

		<u> </u>	at or		
EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	3,729,581	April 24, 1973	Anderson	348/640	September 3, 1973
	3,731,197	May 1, 1973	Clark	380/36	December 15, 1969
	3,736,369	May 29, 1973	Vogelman et al.	380/228	March 13, 1972
	3,744,043	July 3, 1973	Walden et al.	340/870.7	June 1, 1971
	3,746,780	July 17, 1973	Stetten et al.	386/95	February 25, 1971
	3,749,845	July 31, 1973	Fraser	370/433	August 27, 1971
	3,754,211	August 21, 1973	Rocher et al.	714/749	December 30, 1971
	3,755,624	August 28, 1973	Sekimoto	348/495	April 22, 1971
	3,757,225	September 4, 1973	Ukicki	725/1	March 16, 1972
	3,761,888	September 25, 1973	Flynn	710/18	August 3, 1972
	3,773,977	November 20, 1973	Guanella	380/36	June 21, 1971
	3,777,053	December 4, 1973	Wittig et al.	380/228	May 16, 1972
	3,789,137	January 29, 1974	Newell	386/98	April 7, 1972
	3,798,359	March 19, 1974	Feistel	380/37	June 30, 1971
	3,798,610	March 19, 1974	Bliss et al	709/236	December 20, 1972
	3,806,814	April 23, 1974	Forbes	725/119	April 26, 1972
	3,819,852	June 24, 1974	Wolf	348/478	August 29, 1972
	3,824,332	July 16, 1974	Horowitz	380/222	February 18, 1972
	3,824,467	July 16, 1974	French	380/35	December 1, 1972
	3,825,893	July 23, 1974	Bossen et al.	714/757	May 29, 1973
	3,833,757	September 3, 1974	Kirk, Jr. et al.	725/144	April 10, 1972
	3,835,387	September 10, 1974	Rookes et al.	725/151	November 15, 1972
	3,842,196	October 15, 1974	Loughlin.	348/486	November 12, 1973
	3,845,391	October 29, 1974	Crosby	455/39	July 15, 1971
	3,859,458	January 7, 1975	Takezawa et al.	348/24	August 30, 1973
	3,882,392	May 6, 1975	Harney	725/79	January 29, 1973
	3,890,461	June 17, 1975	Vogelman et al.	380/228	March 27, 1973
	3,891,792	June 24, 1975	Kimura	348/622	June 25, 1974
	3,893,031	July 1, 1975	Majeau et al.	380/274	November 8, 1972
	3,894,176	July 8, 1995	Mellon	380/230	178/5.1
	3,899,633	August 12, 1975	Sorenson et al.	380/207	May 12, 1972
	3,909,512	September 30, 1975	Omori et al.	386/75	October 5, 1973
	3,911,216	October 7, 1975	Bartek et al.	380/46	December 17, 1973
	3,911,419	October 7, 1975	Bates et al.	345/162	November 23, 1973
	3,914,534	October 21, 1975	Forbes	380/220	October 29, 1973
	3,916,091	October 28, 1975	Kirk, Jr. et al.	380/242	January 31, 1973
	3,919,462	November 11, 1975	Hartung et al.	- 380/235	August-15,-1973
	3,921,151	November 18, 1975	Guanella	380/36	July 12, 1973
	3,922,482	November 25, 1975	Gabriel et al.	725/31	August 20, 1971
	3,934,079	January 20, 1976	Barnhart	725/131	October 26, 1973
	3,936,593	February 3, 1976	Aaronson et al.	380/219	August 5, 1974
	3,936,594	February 3, 1976	Schubin et al.	380/238	August 5, 1974
	3,944,931	March 16, 1976	Usami et al.	455/192.2	November 14, 1974
	3,949,313	April 6, 1976	Tamada et al.	341/50	May 28, 1974
	3,956,615	May 11, 1976	Anderson et al.	705/72	June 25, 1974



Technology Center 2600 **EXAMINER** PATENT **PATENT** CLASS/ **FILING INITIAL** NUMBER DATE NAME **SUBCLASS** DATE* July 20, 1976 3,970,790 Guanella 380/36 March 7, 1974 3,978,449 August 31, 1976 Sanders et al. 714/823 January 27, 1975 3.987.398 October 19, 1976 Fung 725/127 July 5, 1974 3,988,528 October 26, 1976 Yanagimachi et al. 348/24 August 27, 1973 3,990,050 November 2, 1976 Kolettis et al. 710/23 September 25, 1974 November 23, 1976 3,993,955 Belcher et al. 725/33 April 25, 1975 November 11, 1974 3,997,718 December 14, 1976 Ricketts et al. 725/114 4,008,369 February 15, 1977 Theurer et al. 725/3 February 28, 1975 May 17, 1977 4,024,574 Nieson 380/232 February 26, 1975 May 24, 1977 May 28, 1974 4,025,947 Michael 348/705 4,025,948 May 24, 1977 Loshin 380/228 February 25, 1975 September 13, 1977 4,048,619 Forman, Jr. et al. 370/485 September 17, 1976 4,049,906 September 20, 1977 Hafner et al. 178/2C April 21, 1976 October 4, 1977 4,052,737 Robertson et al. 725/138 July 9, 1976 4,058,830 November 15, 1977 Gulnet et al. 380/212 June 3, 1976 4,064,490 December 20, 1977 Nagel 709/227 September 10, 1975 4,068,264 January 10, 1978 **Pires** 380/233 July 19, 1976 March 14, 1978 4,079,419 Siegle et al. 348/732 October 29, 1975 4,081,612 March 28, 1978 Hafner 370/393 July 14, 1976 March 28, 1978 4,081,753 Miller 455/158.2 December 13, 1976 4,091,417 May 23, 1978 Nieson 380/232 February 23, 1977 4,104,486 August 1, 1978 379/106.06 June 29, 1976 Martin et al. 4,112,464 September 5, 1978 Gulf et al. 380/241 May 11, 1977 4,115,662 September 19, 1978 Gulnet et al. 380/212 September 6, 1977 Pires 4,115,807 September 19, 1978 380/233 November 1, 1976 4,120,030 October 10, 1978 **Johnstine** 713/190 March 11, 1977 4,130,833 December 19, 1978 Choenet 380/220 April 11, 1977 4,138,726 February 26, 1979 Girault et al. 345/113 June 29, 1977 4,160,120 July 3, 1979 Barnes et al. 380/29 November 17, 1977 4,161,751 July 17, 1979 Ost 725/25 May 19, 1977 4,163,254 July 31, 1979 Block et al. 380/233 February 14, 1977 4,163,255 July 31, 1979 Pires 380/233 June 15, 1978 **September 18, 1979** 4,168,396 **Best** 713/190 October 31, 1977 October 9, 1979 4,170,782 Miller 725/14 October 28, 1977 October 16, 1979 4,171,513 Otey et al. 380/43 July 22, 1969 4,172,213 October 23, 1979 Barnes et al. 380/29 November 17, 1977 January 29, 1980 4,186,413 Mortimer-348/473 November-14,-1977-4,196,310 April 1, 1980 Forman et al. 380/46 November 3, 1977 4,200,770 April 29, 1980 Hellman et al. 380/30 September 6, 1977 4,200,913 April 29, 1980 Kuhar et al. 341/23 April 13, 1977 4,215,366 July 29, 1980 Davidson 380/235 April 24, 1979 July 29, 1980 4,215,370 375/240.01 Kirk, Jr. February 22, 1978 4,225,967 September 3, 1980 Miwa et al. January 9, 1978 455/68 4,232,193 November 4, 1980 Gerard 380/36 May 3, 1978 November 25, 1980 4,236,217 Kennedy 702/61 April 20, 1979

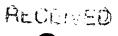


		12	Technology (Anter See	
EXAMINER	PATENT	PATEN PADEMARK	Technology (CLASS/	FILING
INITIAL	NUMBER	DATE		SUBCLASS	DATE*
	4,237,484	December 2, 1980	Brown et al.	375/240.12	August 8, 1979
	4,237,486	December 2, 1980	Shimp	348/475	November 9, 1978
	4,245,246	January 13, 1981	Cheung	380/235	August 3, 1978
	4,247,106	January 27, 1981	Jeffers et al.	463/29	April 12, 1978
	4,250,489	February 10, 1981	Dudash et al.	340/825.02	October 31, 1978
	4,250,521	February 10, 1981	Wright	348/616	June 19, 1979
	4,250,524	February 10, 1981	Tomizawa	380/232	February 22, 1979
	4,251,691	February 17, 1981	Kakihara et al.	348/14.01	December 1, 1978
	4,253,114	February 24, 1981	Tang et al.	380/212	September 26, 1978
	4,253,157	February 24, 1981	Kirschner et al.	707/104	September 29, 1978
	4,262,329	April 14, 1981	Bright et al.	713/164	March 27, 1978
	4,264,925	April 28, 1981	Freeman et al.	725/138	August 13, 1979
	4,266,243	May 5, 1981	Shutterly	380/236	April 25, 1979
	4,275,411	June 23, 1981	Lippel	348/472	April 19, 1978
	4,283,602	August 11, 1981	Adams et al.	380/41	September 23, 1968
	4,284,976	August 18, 1981	Gable et al.	340/825.43	June 7, 1979
	4,286,281	August 25, 1981	Suzuki	386/12	September 26, 1979
	4,287,592	September 1, 1981	Paulish et al.	370/403	May 23, 1979
	4,288,809	September 8, 1981	Yabe	348/468	May 21, 1980
	4,290,141	September 15, 1981	Anderson et al.	725/24	July 2, 1979
	4,295,223	October 13, 1981	Shutterly	455/72	April 25, 1979
	4,302,771	November 24, 1981	Gargini	725/119	July 23, 1980
	4,304,990	December 8, 1981	Atalla	380/45	February 4, 1980
	4,305,131	December 8, 1981	Best	345/327	March 31, 1980
	4,306,289	December 15, 1981	Lumley	713/190	February 4, 1980
	4,306,305	December 15, 1981	Doi et al.	714/755	October 19, 1979
	4,307,446	December 22, 1981	Barton et al.	710/131	May 2, 1979
	4,310,854	January 12, 1982	Baer	348/484	August 28, 1979
	4,312,016	January 19, 1982	Glaab et al.	348/706	February 2, 1979
	4,313,132	January 26, 1982	Doles et al.	725/26	October 31, 1979
	4,314,367	February 2, 1982	Bakka et al.	370/422	January 17, 1980
	4,316,055	February 16, 1982	Feistel	380/37	December 30, 1976
	4,316,245	February 16, 1982	Luu et al.	709/106	December 7, 1978
	4,317,215	February 23, 1982	Tabata et al.	725/131	September 11, 1979
	4,318,125	March 2, 1982	Shutterly	380/236	April 25, 1979
	4,319,079	March 9, 1982	Best	713/190	January 17, 1980
	4,322,745	March 30, 1982	Saeki et al.	380/242	March-2-1,-1980
	4,323,921	April 6, 1982	Guillou	705/53	January 23, 1980
	4,323,922	January 6, 1982	de Toonder et al.	380/226	December 17, 1979
<u> </u>	4,325,078	April 13, 1982	Seatom et al.	380/230	November 20, 1979
	4,329,675	May 11, 1982	Van Hulle	725/32	September 23, 1980
	4,329,684	May 11, 1982	Monteath et al.	345/180	January 15, 1980
	4,330,794	May 18, 1982	Sherwood	380/206	February 25, 1980
	4,332,980	June 1, 1982	Reynolds et al.	370/259	May 30, 1980
	4,334,242	June 8, 1982	Mangold	386/46	January 14, 1980

Technology Center 2600 Docket No. 5634.0358

Serial No. 08/479,215

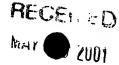
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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	EMARY OF NAME	CLASS/ SUBCLASS	FILING DATE*		
	4,336,553	June 22, 1982	den Toonder et al.	380/206	May 14, 1980		
	4,336,559	June 22, 1982	Koyama et al.	260/73.05	November 9, 1978		
	4,337,480	June 29, 1982	Bourassin et al.	348/552	February 8, 1980		
	4,338,628	July 6, 1982	Payne et al.	380/213	December 19, 1979		
	4,339,798	July 13, 1982	Hedges et al.	463/26	December 17, 1979		
	4,340,903	July 20, 1982	Tamura	348/187	August 6, 1980		
	4,343,042	August 3, 1982	Schrock et al.	725/116	June 9, 1979		
	4,347,498	August 31, 1982	Lee et al.	340/825.02	November 21, 1979		
	4,347,532	August 31, 1982	Korver	348/565	October 14, 1980		
	4,353,088	October 5, 1982	den Toonder et al.	380/206	May 14, 1980		
	4,354,201	October 12, 1982	Sechet et al.	380/228	June 11, 1980		
	4,360,828	November 23, 1982	Briggs, Jr. et al	725/114	August 7, 1978		
	4,361,851	November 30, 1982	Asip et al.	725/14	January 4, 1980		
	4,361,877	November 30, 1982	Dyer et al.	702/176	February 5, 1980		
	4,364,081	December 14, 1982	Hashimoto et al.	348/617	April 16, 1981		
	4,365,110	December 21, 1982	Lee et al.	380/28	June 5, 1979		
	4,367,548	January 4, 1983	Cotten, Jr. et al.	359/125	April 10, 1980		
	4,367,557	January 4, 1983	Stern et al.				
			Liu	725/149	May 25, 1979		
	4,368,483	January 11, 1983		348/617	June 22, 1981		
	4,368,486	January 11, 1983	Degoulet et al.	348/598	February 25, 1981		
	4,374,437	February 15, 1983	Citta et al.	455/164.2	December 29, 1980		
	4,375,579	March 1, 1983	Davida et al.	380/28	January 30, 1980		
	4,375,651	March 1, 1983	Templin et al.	348/731	July 27, 1981		
	4,378,470	March 29, 1983	Murto, el al.	379/93.05	March 25, 1981		
	4,379,205	April 5, 1983	Wyner	380/28	June 22, 1979		
	4,385,324	May 24, 1983	Shioda et al.	348/781	November 16, 1981		
	4,388,643	June 14, 1983	Aminetzah	380/239	April 6, 1981		
	4,388,645	June 14, 1983	Cox et al.	348/468	April 13, 1981		
	4,388,664	June 14, 1983	Ishman et al.	361/93.6	August 3, 1981		
	4,389,671	June 21, 1983	Posner et al.	380/235	September 29, 1980		
	4,390,898	June 28, 1983	Bond et al.	380/241	March 23, 1981		
	4,394,691	July 19, 1983	Amano et al.	348/734	July 30, 1981		
	4,394,762	July 19, 1981	Nabeshima	714/758	January 6, 1981		
	4,395,757	July 26, 1983	Bienvenu et al.	709/104	April 14, 1981		
	4,396,915	August 2, 1983	Farnsworth et al.	340/870.03	March 31, 1980		
	4,396,946	August 2, 1983	Bond	380/226	March 23, 1981		
	4,396,947	August 2, 1983	Cheung —	380/222	March-26,-1980		
	4,398,216	August 9, 1983	Field et al.	380/238	September 19, 1980		
	4,400,587	August 23, 1983	Taylor et al.	379/113	August 25, 1981		
	4,405,942	September 20, 1983	Block et al.	380/214	March 3, 1982		
	4,410,917	October 18, 1983	Newdoll et al.	360/15	September 14, 1981		
	4,413,339	November 1, 1983	Riggle et al.	714/765	July 24, 1981		
	4,415,771	November 15, 1983	Martinez	379/43	April 3, 1981		
	4,422,093	December 20, 1983	Pargee, Jr.	725/115	January 27, 1983		
	4,424,532	January 3, 1984	den Toonder et al.	380/226	May 9, 1983		





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EXAMINER:Initial if citation considered, whether or not citation is in conformation in conformation and not considered. Include copy of this form with next communication.	

Appendix A

A concise explanation of the relevance, as it is presently understood, of each patent, publication, or other information listed that is not in the English language. 37 C.F.R. § 1.98(a)(3).

Reference No.	Date	Author/ Inventor	Title/Description	Explanation
JP 53-121420			Japanese Patent	A billing system for pay TV is
			Laying Open Gazette	disclosed.
JP 60-149281			Japanese Patent	A billing system for pay TV is
			Laying Open Gazette	disclosed.
JP 61-267474			Japanese Patent	A receiver for pay broadcast is
			Laying Open Gazette	disclosed.
JP 61-20441			Japanese Patent	A broadcast system is disclosed
			Laying Open Gazette	, , , , , , , , , , , , , , , , , , , ,
PL 52080	 	Zaboklicki	Sposob Realizacji I	A method and apparatus for
			Zestaw Urzadzen	interactive television systems
			Aktywnej Telewizji	designed for a conversational
			Tracy when I cle wizh	reception of specially
				programmed television
				broadcasts.
DE 29 04 981	 	Zaboklicki	Verfahren zur	A method and apparatus for
DE 29 04 901		Zaboklicki		
			Ubertragung von	interactive television systems
	1		Fernsehsignalen und	designed for a conversational
	1	1	System zur	reception of specially
	1		Durchfuhrung des	programmed television
			Verfahrens.	broadcasts.
FR 79 03351		Zaboklicki	Procede de realisation	A method and apparatus for
			et ensemble de	interactive television systems
			dispositifs formant un	designed for a conversational
			systeme de television	reception of specially
			interactive.	programmed television
	l		1	broadcasts.
	2/1985		"Specification du	A specification of a broadcast
			service de classe A,	teletext system.
			TeleDiffusion de	
			France," Antiope.	
	6/1981	Gautier, J.P.	"Language	A hybrid screen teletext
	ļ		Telediffuse de	electronic message system.
			Messagerie du Projet	
			Ecrans Hybrides,"	
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		Î	system.	1
	6/1985	Auer, R.	"Die Warteschlange	A fast video text queing system
	" 1703	'''''', '''	Uberlistet,"	that decreases the waiting time
			Funkschau, pp. 53-56.	with a broadcast videotext
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	6/1984	- 	Kombinierer fur	A combiner for a videotext
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				transfer videotext pages form
			Mitteilungen,"	several input cycles to one
	L		Jahrgang 28, (1984),	output cycle.

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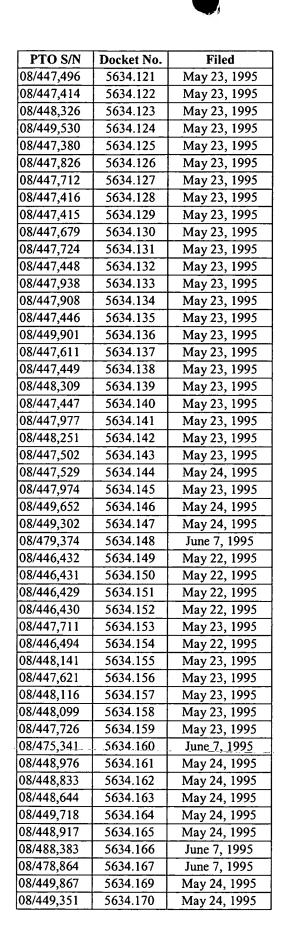
Reference No.	Date	Author/ Inventor	Title/Description	Explanation
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	4/1980	Heider, et al.	"Videotext und Bildschirmtext," Grundig Technische Informationen, Heft 4/5, 1980, pp. 171- 195.	Videotext and interactive videotext.

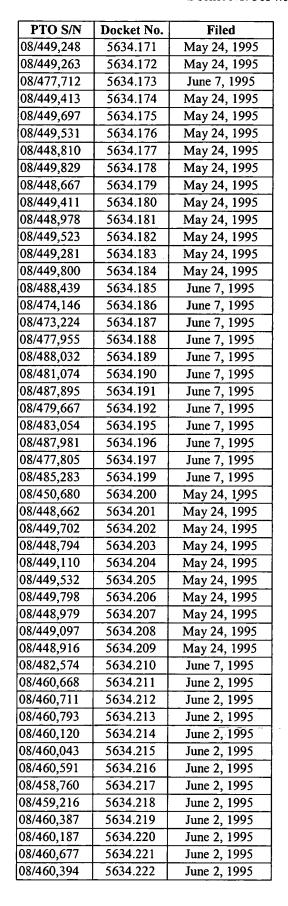
Appendix B

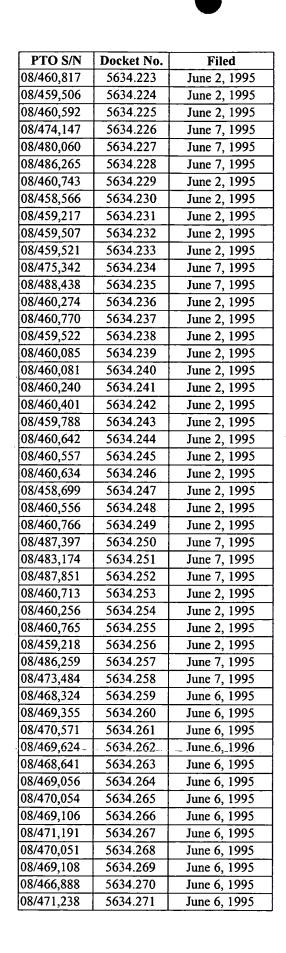
List of Applicants' related co-pending applications. 37 C.F.R. § 1.98(d).

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08/488,378	5634.339	June 7, 1995
08/477,564	5634.340	June 7, 1995
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08/487,506	5634.350	June 7, 1995
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08/472,980	5634.353	June 7, 1995
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08/487,526	5634.355	June 7, 1995
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08/486,258	5634.357	June 7, 1995
08/479,215	5634.358	June 7, 1995
08/479,414	5634.359	June 7, 1995
08/474,496	5634.360	June 7, 1995
08/485,282	5634.361	June 7, 1995
08/484,858	5634.362	June 7, 1995
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08/473,997	5634.364	June 7, 1995
08/479,523	5634.365	June 7, 1995

Appendix C

List of prior art cited by PTO in Applicants' related co-pending applications. The "Type" column refers to "F" = foreign patent or application; "P" = publication; and, "U" = U.S. Patent.

Cited in PTO S/N	Type	Document No.	Reference
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08/113,329	F	AU 74,619	Hetrich
08/113,329	F	JP 56-51161	Kamishima et al.
08/113,329	P		Skilton, "The Digitrol 2 - Automatic VTR Programme Control
08/397,371	U	4,422,093	Pargee, Jr.
08/397,582	F	GB 959,274	Germany
08/397,582	F	JP 55-028691	Oono, et al.
08/397,582	U	4,360,828	Briggs, Jr. et al
08/397,582	U	4,343,042	Schrock et al.
08/397,636	F	GB 959,274	Germany
08/397,636	F	AU 74,619	Hetrich
08/397,636	F	WO 80/02093	Vikene
08/397,636	F	DE 2,904,891	Zaboklicki
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08/397,636	P		Diederich, Werner DT, "Electronic Image and Tone Return
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08/437,937	U	4,455,570	Saeki, et al.
08/438,011	F	DE 2,904,891	Zaboklicki
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08/441,821	U	4,052,737	Robertson et al.
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08/441,942	U	4,317,215	Tabata et al.
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08/442,383	U	4,455,570	Saeki, et al.
08/442,505	U	4,251,691	Kakihara et al.
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08/442,507	U	4,052,737	Robertson et al.
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08/444,756	F	GB 1,370,535	Millar, et al.
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08/444,757	U	4,439,784	Furukawa et al.
08/444,781	U	4,422,093	Pargee, Jr.
08/444,786	F	DE 2,904,891	Zaboklicki
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08/445,054	U	3,755,624	Sekimoto
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08/447,938	U	4,251,691	Kakihara et al.
08/447,974	F	GB 2,140,963	Wine
08/447,974	U	4,742,516	Yamaguchi
08/447,977	F	JP 55-028691	Oono, et al.
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08/448,099	F	GB 1,370,535	Millar, et al.
08/448,116	U	4,250,489	Dudash et al.
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08/448,143	U	4,052,737	Robertson et al.
08/448,143	U	4,677,552	Sibley, Jr.
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08/448,251	U	4,831,526	Luchs et al.
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08/448,917	U	4,439,784	Furukawa et al.
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08/449,867	F	2,904,981	Germany
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08/460,043	U	3,993,955	Belcher et al.
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08/466,890	F	2,904,981	Germany
08/466,890	F	DT 25 50 624 A1	
08/466,890	U	4,422,093	Pargee, Jr.
08/466,894	Ü	3,761,888	Flynn
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08/467,045	U	4,688,105	Bloch et al.
08/467,045	U	3,627,914	Davies
08/467,904	F	GB 959,274	Germany
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08/467,904	U	3,627,914	Davies
08/467,904	U	3,761,888	Flynn
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08/468,044	F	AU 74,619	Hetrich
08/468,044	F	JP 56-51161	Kamishima et al.
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08/468,044	P		Byloff, "Automatic Control of Video Tape Equipment at NBC,
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08/468,044	P		Marsden, "Master Control Techniques," v 9 of the "Journal of the
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08/468,323	U	4,688,105	Bloch et al.
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08/468,736	F	GB 959,274	Germany
08/468,736	U	4,688,105	Bloch et al.
08/468,736	U	3,627,914	Davies
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08/469,059	U	4,449,246	Seiler et al.
08/469,078	U	4,688,105	Bloch et al.
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08/469,106	F	DE 2,904,891	Zaboklicki
08/469,106	U	4,422,093	Pargee, Jr.
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08/469,107	F	GB 959,274	Germany
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08/469,107	F	DE 2,904,891	Zaboklicki
	U		Morchand
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08/470,051	U	4,422,093	Pargee, Jr.
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08/471,240	U	3,627,914	Davies	
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08/472,399	F	GB 1,370,535	Millar, et al.	
08/472,980	U	4,506,387	Walter	
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08/473,484	U	4,455,570	Saeki, et al.	
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08/473,996	U	4,250,521	Wright	
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08/474,496	U	4,518,989	Yabiki et al.	
08/474,964	F	DE 2,904,891	Zaboklicki	
08/477,547	U	3,676,580	Beck	
08/477,570	U	3,586,767	Morchand	
08/477,805	Ū	4,772,887	Dunkerton	
08/477,955	F	GB 1,370,535	Millar, et al.	
08/477,955	Ü	4,251,691	Kakihara et al.	
08/477,955	U	4,422,093	Pargee, Jr.	
08/478,044	U	4,455,570	Saeki, et al.	
08/478,767	U	4,052,737	Robertson et al.	
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08/478,864	U	3,993,955	Belcher et al.	

Cited in PTO S/N	Type	Document No.	Reference	
08/478,864	U	4,484,218	Boland et al.	
08/478,864	Ū	4,396,946	Bond	
08/478,864	Ū	4,538,176	Nakajima et al.	
08/478,908	Ū	4,614,971	Maney et al.	
08/479,215	Ū	4,455,570	Saeki, et al.	
08/479,216	F	GB 1,370,535	Millar, et al.	
08/479,375	F	GB 1,370,535	Millar, et al.	
08/479,523	U	4,455,570	Saeki, et al.	
08/480,740	U	3,755,624	Sekimoto	
08/482,573	F	GB 1,370,535	Millar, et al.	
08/482,573	P		Davidoff, Frank, "The All-Digital Television Studio," SMPTE	
			Journal, vol. 89, No. 6.	
08/482,574	U	4,744,080	Brennand et al.	
08/482,574	U	4,636,851	Drury et al.	
08/482,574	U	4,782,387	Sabri et al.	
08/482,574	U	4,748,619	Vigarie et al.	
08/482,857	F	60-146587	Japan	
08/482,857	U	4,677,685	Kurisu	
08/483,054	F	WO 80/02093	Vikene	
08/483,169	U	4,455,570	Saeki, et al.	
08/484,858	U	4,506,387	Walter	
08/484,865	F	DE 2,904,891	Zaboklicki	
08/484,865	U	4,330,794	Sherwood	
08/485,282	U	4,455,570	Saeki, et al.	
08/485,773	U	4,052,737	Robertson et al.	
08/485,775	U	4,422,093	Pargee, Jr.	
08/486,258	U	4,484,218	Boland et al.	
08/486,259	U	RE 31182	Crager et al.	
08/486,259	U	3,627,914	Davies	
08/486,259	U	4,500,987	Hasegawa	
08/486,259	U	4,472,801	Huang	
08/486,265	U	4,422,093	Pargee, Jr.	
08/487,155	U	4,580,134	Campbell et al.	
08/487,155	U	4,251,691	Kakihara et al.	
08/487,506	U	4,052,737	Robertson et al.	
08/487,536	U	4,317,215	Tabata et al.	
08/487,556	F	DE 2,904,891	Zaboklicki	
08/487,565	U	4,052,737	Robertson et al.	
08/487,649	F	DE 3,143,627	Suhrmann	
08/487,649	F	DE 2,904,891	Zaboklicki	
08/487,649	P		McArthur, David "The television as a receive only terminal"	
08/487,649	U	3,922,482	Gabriel et al.	
08/487,649	U	3,008,000	Morchand	
08/487,649	U	4,385,324	Shioda et al.	
08/487,981	F	DE 2,904,891	Zaboklicki	
08/487,982	F	DE 2,904,891	Zaboklicki	
08/487,984	F	DE 2,904,891	Zaboklicki .	
08/488,058	F	DE 2,904,891	Zaboklicki	
08/488,058	U	3,909,512	Omori et al.	

4	

Cited in PTO S/N	Type	Document No.	Reference
08/488,058	U	4,422,093	Pargee, Jr.
08/488,383	U	4,455,570	Saeki, et al.
08/488,438	U	4,052,737	Robertson et al.
08/488,619	P		Gaines, B.R. and Sams, J., "Minicomputers in Security Dealing," Computer, September, 1976, pp. 6-15.
08/488,620	U	4,422,093	Pargee, Jr.
08/488,620	U	4,455,570	Saeki, et al.

Appendix D

List of Applicants' prior applications relied upon for an earlier filing date under 35 U.S.C. 120. 37 C.F.R. § 1.98(d).

App. No.	File Date	Patent No.	Patent Date
317,510	November 3, 1981	4,694,490	September 15, 1987
829,531	February 14, 1986	4,704,725	November 3, 1987
96,096	September 11, 1987	4,965,825	October 23, 1990
588,126	September 25, 1990	5,109,414	April 28, 1992
849,226	March 10, 1992	5,233,654	August 3, 1993
56,501	May 3, 1993	5,335,277	August 2, 1994

Appendix E

List of prior art not cited in Applicants' related co-pending applications but cited in Applicants' prior applications (see Appendix D) relied upon for an earlier filing date under 35 U.S.C. 120. 37 C.F.R. § 1.98(d).

PATENT	DATE	NAME	CLASS	FILING DATE
2,511,085	June 13, 1950	Smith	381/104	November 15, 1946
2,573,349	October 30, 1951	Miller et al.	725/14	December 9, 1949
2,769,023	October 30, 1956	Loew et al.	725/143	January 19, 1950
2,788,387	April 9, 1957	Druz	380/320	October 2, 1951
2,864,865	December 16, 1958	Morris	568/430	May 4, 1955
2,866,962	December 30, 1958	Ellet	380/227	December 6, 1955
3,016,091	January 9, 1962	Daniele	162/391	August 11, 1960
3,071,642	January 1, 1963	Mountjoy et al.	725/151	February 21, 1957
3,213,201	October 19, 1965	Flood et al.	370/381	July 2, 1962
3,238,297	March 1, 1966	Pawley et al.	380/240	July 8, 1951
3,363,250	January 9, 1968	Jacobson	340/825.17	July 20, 1965
3,531,586	September 29, 1970	Bass et al.	725/151	April 19, 1965
3,536,833	October 27, 1970	Guanella	380/28	July 8, 1965
3,569,937	March 9, 1971	Hoetter	340/825.75	November 6, 1968
3,573,747	April 6, 1971	Adams et al.	705/37	February 24, 1969
3,601,528	August 24, 1971	McVoy	724/143	June 16, 1969
3,609,697	September 28, 1971	Blevins et al.	717/2	October 21, 1968
3,657,699	April 18, 1972	Rocher et al.	380/265	June 30, 1970
3,659,046	April 5, 1972	Angeleri et al.	380/43	May 13, 1969
3,693,090	September 29, 1972	Gabriel	725/1	August 8, 1969
3,703,684	November 21, 1972	McVoy	725/16	June 25, 1971
3,725,672	April 3, 1973	Reuter	327/176	July 30, 1971
3,729,581	April 24, 1973	Anderson	348/640	September 3, 1973
3,731,197	May 1, 1973	Clark	380/36	December 15, 1969
3,736,369	May 29, 1973	Vogelman et al.	380/228	March 13, 1972
3,749,845	July 31, 1973	Fraser	370/433	August 27, 1971
3,757,225	September 4, 1973	Ukicki	725/1	March 16, 1972
3,773,977	November 20, 1973	Guanella	380/36	June 21, 1971
3,777,053	December 4, 1973	Wittig et al.	380/228	May 16, 1972
3,789,137	January 29, 1974	Newell	386/98	April 7, 1972
3,798,359	March 19, 1974	Feistel	380/37	June 30, 1971
3,798,610	March 19, 1974	Bliss et al	709/236	December 20, 1972
3,806,814	April 23, 1974 -	- Forbes-	725/119_	April 26, 1972
3,819,852	June 24, 1974	Wolf	348/478	August 29, 1972
3,824,332	July 16, 1974	Horowitz	380/222	February 18, 1972
3,824,467	July 16, 1974	French	380/35	December 1, 1972
3,825,893	July 23, 1974	Bossen et al.	714/757	May 29, 1973
3,833,757	September 3, 1974	Kirk, Jr. et al.	725/144	April 10, 1972
3,835,387	September 10, 1974	Rookes et al.	725/151	November 15, 1972
3,842,196	October 15, 1974	Loughlin.	348/486	November 12, 1973
3,845,391	October 29, 1974	Crosby	455/39	July 15, 1971
3,882,392	May 6, 1975	Harney	725/79	January 29, 1973

PATENT	DATE	NAME	CLASS	FILING DATE
3,890,461	June 17, 1975	Vogelman et al.	380/228	March 27, 1973
3,891,792	June 24, 1975	Kimura	348/622	June 25, 1974
3,893,031	July 1, 1975	Majeau et al.	380/274	November 8, 1972
3,894,176	July 8, 1995	Mellon	380/230	178/5.1
3,899,633	August 12, 1975	Sorenson et al.	380/207	May 12, 1972
3,911,216	October 7, 1975	Bartek et al.	380/46	December 17, 1973
3,914,534	October 21, 1975	Forbes	380/220	October 29, 1973
3,916,091	October 28, 1975	Kirk, Jr. et al.	380/242	January 31, 1973
3,919,462	November 11, 1975	Hartung et al.	380/235	August 15, 1973
3,921,151	November 18, 1975	Guanella	380/36	July 12, 1973
3,934,079	January 20, 1976	Barnhart	725/131	October 26, 1973
3,936,593	February 3, 1976	Aaronson et al.	380/219	August 5, 1974
3,936,594	February 3, 1976	Schubin et al.	380/238	August 5, 1974
3,949,313	April 6, 1976	Tamada et al.	341/50	May 28, 1974
3,956,615	May 11, 1976	Anderson et al.	705/72	June 25, 1974
3,970,790	July 20, 1976	Guanella	380/36	March 7, 1974
3,978,449	August 31, 1976	Sanders et al.	714/823	January 27, 1975
3,987,398	October 19, 1976	Fung	725/127	July 5, 1974
3,988,528	October 26, 1976	Yanagimachi et al.	348/24	August 27, 1973
3,997,718	December 14, 1976	Ricketts et al.	725/114	November 11, 1974
4,024,574	May 17, 1977	Nieson	380/232	February 26, 1975
4,025,947	May 24, 1977	Michael	348/705	May 28, 1974
4,025,948	May 24, 1977	Loshin	380/228	February 25, 1975
4,048,619	September 13, 1977	Forman, Jr. et al.	370/485	September 17, 1976
4,049,906	September 20, 1977	Hafner et al.	178/2C	April 21, 1976
4,058,830	November 15, 1977	Gulnet et al.	380/212	June 3, 1976
4,068,264	January 10, 1978	Pires	380/233	July 19, 1976
4,079,419	March 14, 1978	Siegle et al.	348/732	October 29, 1975
4,081,612	March 28, 1978	Hafner	370/393	July 14, 1976
4,081,753	March 28, 1978	Miller	455/158.2	December 13, 1976
4,091,417	May 23, 1978	Nieson	380/232	February 23, 1977
4,104,486	August 1, 1978	Martin et al.	379/106.06	June 29, 1976
4,112,464	September 5, 1978	Gulf et al.	380/241	May 11, 1977
4,115,662	September 19, 1978	Gulnet et al.	380/212	September 6, 1977
4,115,807	September 19, 1978	Pires	380/233	November 1, 1976
4,120,030	October 10, 1978	Johnstine	713/190	March 11, 1977
4,130,833	December 19, 1978	Choenet	380/220	April 11, 1977
4,138,726	February 26, 1979	Girault et al.	345/113	June 29, 1977
4,160,120	July 3, 1979	Barnes et al.	380/29	November 17, 1977
4,161,751	July_1.7,_1979	Ost	725/25	May 19, 1977
4,163,254	July 31, 1979	Block et al.	380/233	February 14, 1977
4,163,255	July 31, 1979	Pires	380/233	June 15, 1978
4,168,396	September 18, 1979	Best	713/190	October 31, 1977
4,170,782	October 9, 1979	Miller	725/14	October 28, 1977
4,171,513	October 16, 1979	Otey et al.	380/43	July 22, 1969
4,172,213	October 23, 1979	Barnes et al.	380/29	November 17, 1977
4,186,413	January 29, 1980	Mortimer	348/473	November 14, 1977
4,196,310	April 1, 1980	Forman et al.	380/46	November 3, 1977
	April 29, 1980	Hellman et al.	380/30	September 6, 1977

PATENT	DATE	NAME	CLASS	FILING DATE
4,200,913	April 29, 1980	Kuhar et al.	341/23	April 13, 1977
4,215,366	July 29, 1980	Davidson	380/235	April 24, 1979
4,215,370	July 29, 1980	Kirk, Jr.	375/240.01	February 22, 1978
4,225,967	September 3, 1980	Miwa et al.	455/68	January 9, 1978
4,232,193	November 4, 1980	Gerard	380/36	May 3, 1978
4,236,217	November 25, 1980	Kennedy	702/61	April 20, 1979
4,237,484	December 2, 1980	Brown et al.	375/240.12	August 8, 1979
4,247,106	January 27, 1981	Jeffers et al.	463/29	April 12, 1978
4,250,524	February 10, 1981	Tomizawa	380/232	February 22, 1979
4,253,114	February 24, 1981	Tang et al.	380/212	September 26, 1978
4,253,157	February 24, 1981	Kirschner et al.	707/104	September 29, 1978
4,262,329	April 14, 1981	Bright et al.	713/164	March 27, 1978
4,264,925	April 28, 1981	Freeman et al.	725/138	August 13, 1979
4,266,243	May 5, 1981	Shutterly	380/236	April 25, 1979
4,275,411	June 23, 1981	Lippel	348/472	April 19, 1978
4,283,602	August 11, 1981	Adams et al.	380/41	September 23, 1968
4,284,976	August 18, 1981	Gable et al.	340/825.43	June 7, 1979
4,286,281	August 25, 1981	Suzuki	386/12	September 26, 1979
4,287,592	September 1, 1981	Paulish et al.	370/403	May 23, 1979
4,288,809	September 8, 1981	Yabe .	348/468	May 21, 1980
4,290,141	September 15, 1981	Anderson et al.	725/24	July 2, 1979
4,295,223	October 13, 1981	Shutterly	455/72	April 25, 1979
4,302,771	November 24, 1981	Gargini	725/119	July 23, 1980
4,304,990	December 8, 1981	Atalla	380/45	February 4, 1980
4,305,131	December 8, 1981	Best	345/327	March 31, 1980
4,306,289	December 15, 1981	Lumley	713/190	February 4, 1980
4,306,305	December 15, 1981	Doi et al.	714/755	October 19, 1979
4,307,446	December 22, 1981	Barton et al.	710/131	May 2, 1979
4,310,854	January 12, 1982	Baer	348/484	August 28, 1979
4,312,016	January 19, 1982	Glaab et al.	348/706	February 2, 1979
4,313,132	January 26, 1982	Doles et al.	725/26	October 31, 1979
4,314,367	February 2, 1982	Bakka et al.	370/422	January 17, 1980
4,316,055	February 16, 1982	Feistel	380/37	December 30, 1976
4,316,245	February 16, 1982	Luu et al.	709/106	December 7, 1978
4,318,125	March 2, 1982	Shutterly	380/236	April 25, 1979
4,319,079	March 9, 1982	Best	713/190	January 17, 1980
4,322,745	March 30, 1982	Saeki et al.	380/242	March 21, 1980
4,323,921	April 6, 1982	Guillou	705/53	January 23, 1980
4,323,922	January 6, 1982	de Toonder et al.	380/226	December 17, 1979
4,325,078_	April 13, 1982	Seatom et al.	380/230	November 20, 1979
4,329,675	May 11, 1982	Van Hulle	725/32	September 23, 1980
4,329,684	May 11, 1982	Monteath et al.	345/180	January 15, 1980
4,332,980	June 1, 1982	Reynolds et al.	370/259	May 30, 1980
4,334,242	June 8, 1982	Mangold	386/46	January 14, 1980
4,336,553	June 22, 1982	den Toonder et al.	380/206	May 14, 1980
4,336,559	June 22, 1982	Koyama et al.	260/73.05	November 9, 1978
4,337,480	June 29, 1982	Bourassin et al.	348/552	February 8, 1980
4,338,628	July 6, 1982	Payne et al.	380/213	December 19, 1979
4,339,798	July 13, 1982	Hedges et al.	463/26	December 17, 1979

PATENT	DATE	NAME	CLASS	FILING DATE
4,340,903	July 20, 1982	Tamura	348/187	August 6, 1980
4,347,498	August 31, 1982	Lee et al.	340/825.02	November 21, 1979
4,347,532	August 31, 1982	Korver	348/565	October 14, 1980
4,353,088	October 5, 1982	den Toonder et al.	380/206	May 14, 1980
4,354,201	October 12, 1982	Sechet et al.	380/228	June 11, 1980
4,361,877	November 30, 1982	Dyer et al.	702/176	February 5, 1980
4,364,081	December 14, 1982	Hashimoto et al.	348/617	April 16, 1981
4,365,110	December 21, 1982	Lee et al.	380/28	June 5, 1979
4,367,548	January 4, 1983	Cotten, Jr. et al.	359/125	April 10, 1980
4,367,557	January 4, 1983	Stern et al.	725/149	May 25, 1979
4,375,579	March 1, 1983	Davida et al.	380/28	January 30, 1980
4,375,651	March 1, 1983	Templin et al.	348/731	July 27, 1981
4,379,205	April 5, 1983	Wyner	380/28	June 22, 1979
4,388,643	June 14, 1983	Aminetzah	380/239	April 6, 1981
4,388,645	June 14, 1983	Cox et al.	348/468	April 13, 1981
4,389,671	June 21, 1983	Posner et al.	380/235	September 29, 1980
4,390,898	June 28, 1983	Bond et al.	380/241	March 23, 1981
4,394,691	July 19, 1983	Amano et al.	348/734	July 30, 1981
4,394,762	July 19, 1981	Nabeshima	714/758	January 6, 1981
4,395,757	July 26, 1983	Bienvenu et al.	709/104	April 14, 1981
4,396,947	August 2, 1983	Cheung	380/222	March 26, 1980
4,398,216	August 9, 1983	Field et al.	380/238	September 19, 1980
4,400,587	August 23, 1983	Taylor et al.	379/113	August 25, 1981
4,405,942	September 20, 1983	Block et al.	380/214	March 3, 1982
4,410,917	October 18, 1983	Newdoll et al.	360/15	September 14, 1981
4,413,339	November 1, 1983	Riggle et al.	714/765	July 24, 1981
4,424,532	January 3, 1984	den Toonder et al.	380/226	May 9, 1983
4,425,581	January 10, 1984	Schweppe et al.	348/510	April 17, 1981
4,433,207	February 21, 1984	Best	713/190	September 10, 1981
4,434,323	February 28, 1984	Levine et al.	380/260	June 29, 1981
4,434,436	February 28, 1984	Kleykamp et al.	380/209	July 13, 1981
4,434,464	February 28, 1984	Suzuki et al.	711/164	March 31, 1981
4,446,519	May 1, 1984	Thomas	711/164	May 26, 1981
4,467,139	August 21, 1984	Mollier	713/181	March 12, 1981
4,467,356	August 21, 1984	McCoy	348/385.1	September 24, 1981
4,471,163	September 11, 1984	Donald et al.	705/55	October 5, 1981
4,471,164	September 11, 1984	Henry	380/30	October 13, 1981
4,475,123	October 2, 1984	Dumbauld et al.	380/211	April 2, 1981
4,513,174	April 23, 1985	Herman	711/214	March 19, 1981
4,528,588	July 9, 1985	Lofberg	340/5.1	May 18, 1982
4,528,589	July 9, 1985	Block et al.	380/241	February 1, 1984
4,593,353	June 3, 1986	Pickholtz	705/55	October 26, 1981
4,598,288	July 1, 1986	Yarbrough et al.	340/5.74	December 20, 1983
4,689,661	August 25, 1987	Barbieri et al.	375/240.01	June 22, 1981
4,706,282	November 10, 1987	Knowd	713/168	December 23, 1985
4,908,713	March 13, 1990	Levine	386/83	June 29, 1988
4,963,994	October 16, 1990	Levine	386/83	February 23, 1990
RE 31735	November 13, 1984	Davidson	380/235	July 26, 1982